LIEFF Nerson 4-5-35

we the dage heights for the following tanks:

Tank 91 26 8/4" Tank 107 mank 06 31'6/2 Tank 109 11'6 "an 31" 0" mank 100 11'6 Tark 98 29' 11/2" Tank 110 /1'6 Tonk 00 29' 11/2" Tank 121 // 6" mark _0030'2" Tank 112 /1 6 Tank on 36 31/2" mank 11/190" mank 106 /1 6" - Tank 165 21'8"

Cr. which incoming waste oil loade do we run a BS&W? ALL Loads

coes BELLY mean? Bottom Sediment & WATER

Tymnin how to run a BS&W.

Irist put 50ml touline & them put som! WASTE OIL

"ow often should the senarator be energy for oil Each shift

> rould be done with the of the are mulites in the Be pumped to a oil tank

> > word to a school of cut water

100 ppm

USEPA RCRA 3012689

- 8) What is the minimum of our water can be and still be allowed to go into Metro's system? 5.5
- 9) What do we use to monitor for hydrogen sulfide?
- 10) What will neutralize hydrogen sulfide?

 Hydrogen Peroviole
- pull the probe out clean it off wall a Buffer then reset and put It back
- 12) How do you clean the pH probe? Clean off the probe with a Buffer than reset a put Back
- Priefly explain how to calibrate the pH meter.

 put the probe in a 4ph Butter tset ed 4ph then put the probe in a 10ph Butter set it it needed then put it in a 7ph dit will read a 7 if it is clone right
 - What should you do prior to starting the pumps for any transfer, loading or circulation? Check all values make Sure the Fight Values are open.
 - to make some its going to the right tank

why should you gage the tanks when you're doing a enther eventation? to make sure it not going to aurasturtant

When you are Ishing it

Spill Prevention Control & Counter Measour Plan

AREA TO SERVICE SERVICE CONTROL OF THE

Where is the SPCC kept? IN the ops office

What color(s) in incoming waste water would make you a spect that it contains chrome? yellowisher gravide

The Company of the Co

What chemical do we use to treat for chrome? Soud ion Bisilfat

Where should you put any waste water that you suspect may contain heavy metals or phenols? He a Confinal tank

- 23) Approximately how may gallons per foot are there in Tank #105? 4,800 gd
- 24) When treating waste oil, how hot do we heat the tank before adding RGS? Heat to a Boll about 212°
- 25) What chemical do we use to raise the pH in our water tanks?
- 26) Where in the plant is smoking not allowed? any whor out side of Bldz 19 & ops. office
- 27) When you turn the steam on a tank you should always do it very slowly. Why? So it wont brenk the line
- 28) Which tanks in the facility have working steam coils? 105, 107, 110, 165, Roc tank, 99, 94 290
- Why do we gage the water tanks and record the meter readings before and after discharge to Metro? So WC Know how much water wa propol

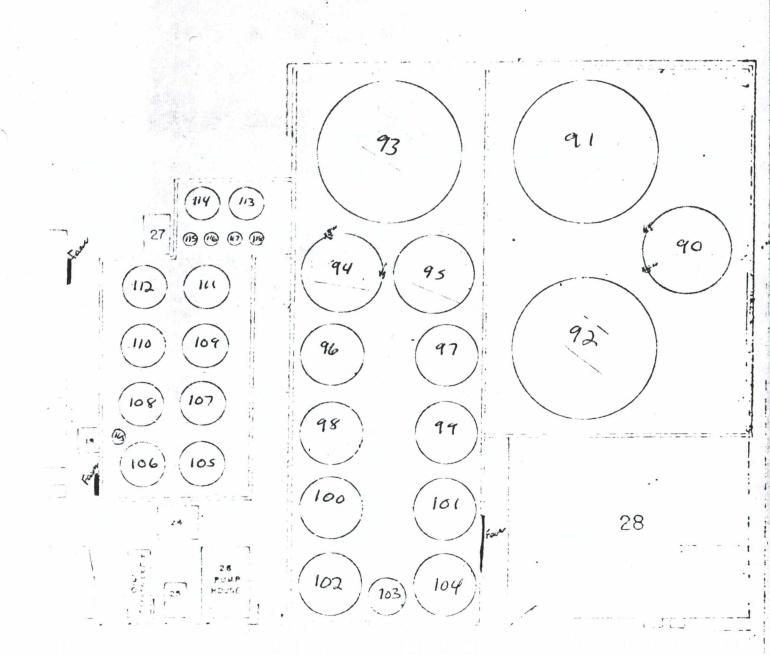
30) Why do we gage the water tanks and record the meter readings before and after discharge to Metro? So WE know How much water we Dropel

31) Where do we log the information from incoming waste receipts? IN the Log Book

- 32) Where is the sewer pumping station located on Pier 91?
- 5. West side of the peur
- 33) How often should the discharge water separator boxes be checked and for what? com Noor for on

This is a diagram of the tank yards.

- 1. Properly number all the tanks.
- 2. Indicate the locations of the foamite stations.
- 3. Show the approximate location of the 8" and the 16" valve on each tank.



NAME: Jeff Halson

CHEMICAL PROCESSORS

DATE: 10-5-83

HAZARDOUS MATERIALS EXAMINATION

---- GENERAL PRECAUTIONS ----

(circle the correct answer)

- 1.) If you have any questions about a chemical you have been instructed to use you should:
 - A) get the job done and ask questions later.
 - B) stop working and take a break.
 - contact a supervisor before proceeding.
 - D) get someone else to do the job.
- 2.) Any operator can enter a tank or confined area if:
 - A) it is only for a few minutes.
 - B) there is another operator watching.
 - C) yo'u smell no poisonous gases inside the tank.
 - the tank is analyzed for explosive gases and oxygen content and the proper paper work is completed.
- 3.) Smoking is permitted:
 - A) only in your car.
 - (B) only in building 19 and the operations office.
 - C) in building 19, the operations office, and within 10 feet of any fuel tank.
 - D) smoking is not permitted in any part of the plant.
- 4) Good personal hygene at Chempro means:
 - washing hands with soap and water before eating and before leaving the plant and keeping work clothes clean.
 - B) keeping hair trimmed and a general neat appearance.

- C) conforming to the companys political philosophy.
- D) none of the above.

-- PETROLEUM BASE CHEMICALS --

- 1.) Circle the chemicals which do not belong to the group of petroleum base chemicals at Chempro.
 - (A) sulfuric acid
 - B) waste oil/reclaim oil
 - C) emulsified oil
 - D cod liver oil
 - waste oil treatment chemicals (RGS; NALCO, ECO, etc.)
 - f hydrogen peroxide
 - G) sodium hydroxide
- 2.) Answer the following true or false.
 - A) true (false) You do not have to worry about getting waste oil on your skin because it is a completely safe material.
 - B) true false Vapors from the waste oil treatment tanks may be toxic so you should not breathe them.
 - C) true false Skin contact with emulsified oil may cause pimples, boils, blackheads, scaling, drying, cracking, and other skin conditions.
 - D) true false We do not know the chemical compounds found in RGS or other waste oil treatment chemicals so we just assume they are harmless.
 - E) true false All petroleum base chemicals at Chempro are potentially flammable or combustible.
 - F) true false You can tell how flammable a waste oil is by doing a BS&W test.

INCOMING WASTE WATER

GROUP 1

GROUP 2

Sulfuric Acid Sodium Hydroxide Hydrogen Peroxide Potassium Permanganate

Ferrous Sulfate Calcium Chloride Sodium Bisulfite Lime Alum

- The most dangerous group of treatment chemicals are found 1) in group # /
- You should always: 2)
 - add sulfuric acid to water when mixing the two.
 - B) add water to sulfuric acid when mixing the two.
 - keep sulfuric acid away from water. C)
 - D) none of the above.
- 3). You should always:
 - rapidly add water to dry caustic (sodium hydroxide). A)
 - B) slowly add dry caustic to water when mixing.
 - keep dry caustic away from water at all times. C)
 - all of the above. D)
- When hydrogen peroxide reacts with organic materials such as 4) oil, cloth, paper, or wood, there is a danger because the result could be:
 - A) an explosion.
 - B) a fire.
 - the formation of toxic fumes.
 - all of the above.
- 5) Which of the following materials would you never mix with potassium permanganate.
 - A) waste water

c) phenol water

B) waste oil

D) hydrogen peroxide

				-page	4
6)	When h	hand ctio	ling chemicals from group #1 which personal nitems would you be required to wear.	saftey	
		A)	eye protection		
		в)	rubber_gloves		
		c)	rubber boots		
		D)	coveralls		
		E)	all of the above		
7)	Which a res	of pira	the chemicals from group #1 would require the tor with dust filters when handling.	ie use o	f

- - A) sulfuric acid
 - hydrogen peroxide B)
 - potassium permanganate
 - D) liquid caustic
- What do all the chemicals in the second group have in common. 8)
 - they all heat up when mixed with water. A)
 - they are all very toxic to people. B)
 - they are all powder like materials (3)
 - all of the above. D)
- When working with any powder type chemical a full face respirator 9) with dust filters should be worn.

false

It is ok to mix sodium bisulfite with water that has a low pH. 10)

false true

What is the single most important thing to know about a waste 11) water before you add any treatment chemicals.

AND MISCELLANEOUS CHEMICALS

- 1) Phenol is:
 - A) the thin layer of oil which sits on top of waste water.
 - B) a treatment chemical.
 - (C) a toxic contaminate found in some waste water loads.
 - D) none of the above.
- 2) Gloves, coveralls, and boots should be worn when handling phenol because:
 - A) it can burn through clothing.
 - (B) it can absorb into the skin.
 - C) it can melt rubber.
 - D) all of the above.
- 3) We test for hex chrome because it is a toxic contaminate of some waste waters.

true

false

4) Toluene is a narcotic which can make you feel 'high' if breathed in an unventillated room and can also damage your kidneys.

true

false

5) Cleaning compounds are not dangerous like treatment chemicals so no protective clothing need be worn when handling them.

true

false

THE END

NAME: Hector GAMBOA CHEM

CHEMICAL PROCESSORS

DATE: 4-5-85

HAZARDOUS MATERIALS EXAMINATION

10090

---- GENERAL PRECAUTIONS ----

(circle the correct answer)

- 1.) If you have any questions about a chemical you have been instructed to use you should:
 - A) get the job done and ask questions later.
 - B) stop working and take a break.
 - C contact a supervisor before proceeding.
 - D) get someone else to do the job.
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---continued on next page---

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- D) none of the above.

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 - F) true (false) You can tell how flammable a waste oil is by doing a BS&W test.

CHEMICALS USED FOR TREATING

GROUP 1

GROUP 2

Sulfuric Acid Sodium Hydroxide Hydrogen Peroxide Potassium Permanganate

Ferrous Sulfate Calcium Chloride Sodium Bisulfite Lime Alum

- 1) The most dangerous group of treatment chemicals are found in group # 1
- 2) You should always:
 - A add sulfuric acid to water when mixing the two.
 - B) add water to sulfuric acid when mixing the two.
 - C) keep sulfuric acid away from water.
 - D) none of the above.
- 3) You should always:
 - A) rapidly add water to dry caustic (sodium hydroxide).
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 - C) the formation of toxic fumes.
 - D all of the above..
- 5) Which of the following materials would you never mix with potassium permanganate.
 - A) waste water

C) phenol water

B waste oil

(D) hydrogen peroxide

	1	그는 그는 그는 그 사람들이 화면 바람들이 가득하면 하면 하면 하는데 그는
	6)	When handling chemicals from group #1 which personal saftey protection items would you be required to wear.
		A) eye protection
		B) rubber gloves
		C) rubber boots
		D) coveralls
		E all of the above
	7)	Which of the chemicals from group #1 would require the use of a respirator with dust filters when handling.
		A) sulfuric acid
		B) hydrogen peroxide
		© potassium permanganate
		D) liquid caustic
	8)	What do all the chemicals in the second group have in common.
		A) they all heat up when mixed with water.
1		B) they are all very toxic to people.
		they are all powder like materials
		D) all of the above.
	9)	When working with any powder type chemical a full face respirator with dust filters should be worn.
		true (false)
	10)	It is ok to mix sodium bisulfite with water that has a low pH.
5		true (false)
	11)	What is the single most important thing to know about a waste water before you add any treatment chemicals.
		P.H.

INCOMING WASTE WATER

AND MISCELLANEOUS CHEMICALS

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true



THE END